## $6 \times 1$ $c=1$

No. CCCCXCVIII.

## SATURDA F. AOGUST 21, 1852.



EADERS would acaroely look to - book on " The Practice of Measuring and Valuing Arti. Giceri' Work," for an exposition cf riews on deaign, and an endenvour to reform genenally the architecture of our time. They will find these, however, in the second edition just now published by Weale of Mr. Dobson's volume on the former enbject, firat inaved in 1843, which is edited by Mr. E. L. Garbeth, and now takee the title of "The Stadent's Guide to the Practice of Derigning, Measuring, and Veluing Artifeer:' Works." Wben asked, in the abeence of Mr. Dobson, to add such memorand to the work as asemed most necesary, the prosent editor thought the most asefal addition be could make would be " a bried acoount of the preeent practice of designing the works of each trade, with a riew to ite improvement." This be bas dons with scutenese and ability. He has availed himeelf lergely, with due aeknow: ledgraent, of the labours of the lase Mr Alfred Bertholomew, whowe work on "Practical Architecture" rill long keep bis name in respectul memory. At etarting, Mr Garbett enforces the asefol distinction between "decoration" (snecing, decor-grace, beauty) and "ormament." All buman work shonld bave decortion, but all need not have orna ment.

By armament (be mys) is properiy meant nomething extraseosas to the rort, added for the sake of tion in oaly some wort added. That deocration ieclades all oroament, bot there is pleaty of trae decoration wich in not orbement. Thes ooly is orament whict involves etther the edding of annecesery multer (as an ancieat atatue or finial, a modery tower or portico), or the leaving matier thet would, with leas hbour and eqael urectaral effiency, have been removed (as a crocket, a basrelied Agare). To coofonad, therefore ( 0 m expel. lext critic has done), the ternan benury, decoration, and orameast, hos aner and perpteriag on if me ahoqud corfuand bleok pem, blackenisg, and bleck. ing."
Tbe otructurl and the decorative ercellence muat both come through one mind; ornament may be pot on afterwinds, but the gracing of the atrueture, -the production of basoly out of unefuiness, mithoos mate of means or the ute of manual labour to save thougbs, muat be the work of the Jesigner.
i" Yoo may have mea called engineers, and uneo called decoraton, but neither rolel enyineering nor real decoration (of briltians) joo ever have. areept the maire man profee both. Por obecrve, pile of meful undooorated thioge, covered with sor rifbet benatifying. It th right in no vence, for it a not hutann, -it in more than a beaver and a moakey could make between then out of old elothen. To be eort of ert-to be rorthy of
 of decorvived detility. (exopt ornamets). be a piece part (ercept ornamentis) peth be divgied by come Leoking, then, for thie deoortion in all structuret, thet oar worke masy be distingulabed trom thowe of the bretwe, and finding sone of is ko modern eagipering verke, whorain on be sannmias the moet extrongeat expenditare of money,-the amplogment of mere hand laboor
to any smount,-in made to hide mant of prerious thooght and deaign, be in constant, and violent, and unexceptional in hin abase of theme.

Eapisotriog asd astiquarian mimicry," be Witces, "are boch varieties of the mose art, the are of concraling the absence of art. Or rulher, the letter in the ert of concealing it, and the former that of palming it off by impodence and noise. Both are opea abdication of the amme baman pre. rogetive, both bratiab; only that one tuket tbe conkey or parrot, the other the awioe for its model. Now it is not, in this latter, the moternal, or the abseace of orasment that disgats; bet simphy tho aboance of deeigr,- the revernal of that quality mone edmirable in the works of marare, vis. foreaght and provision for all contingencian from the firt. Architecture, in its progreasive times, diced at the atmost approach to this,-at an excel. lence the mane in kiond wich that of natare'? works. thougt of coarce alwaye imperfect in degree; and so did the earliesk works called engineering. (Smenton's. for interece), which are architecture,far more traly so then Cbamberiti or any then or now called to. Bot wose engivecring works ap. pear to resomper this sim, to be planned just a they proceed, or a diffealties oceor to the mind: tbe derign naully impracticable or unelem. and every hailare cobbled op jast as it ocears (either actually, or to the deaiguer's mind, or to orther prop $\left(e^{\prime}\right)$; whereas, in a work of art, all the coembers beve so matwally iola anced ench otber'a design, that often we cannot discorer by inspection any one thing to have been oertainly planned before or aher naocher; and if we can. We call this an "afterthomgh" and a blemieh. But the pribciple of engineering in to be all ntertbougtis, frame the second thing made or planned to the last. And this. Its exact contrariety to devign or art, as well as it expremion of aoparalleled, unbounded, melf-pariog.-cacbecked power and will to wate aly amount of otbers' laboar for the leant of the de. digoer's onn, is what mast madér our great iron otractarea exer painfal and humbliog to bebold, like the pyramids of easlared Ham, -shastly blou permitred on our planet's foce, at monumenia warning: to whet melf-intereat in th analloyed nim plicity may bring un.
To a great extent he is right; errors and ignorancea hare been platered over with gold - were the works of come of the civil engipern bolding bigh reputakion minutely and hovestly inquired into, their authore would atand exposed as dunces and jobbers : some of the " triucophs of engineering " are due to litule other than the command of onlimited expeaditure, ancon trolled power, and the means of trying again, io the event of tailare.
Nevertheleaf, unconditional abuse of a whole class in in this case, as it mast aleays be, unjuat.

The writer eape traly, that the uglinest of English brickwork spring" from irracionalitien in constraction, and would disappear, if we would make the variou arrangements simply with a view to their material ends

Theae woald require the roof to overhang at a corrive, add thas to presert a sarface of incow. bustible material alone, which is very ensy. tbough oever attempted; the Londoa roofs bering, 2 asoud it, kept withla the bailding is an obsard manaer. The aext sbourdity in the fencearation, brought to ite present state by the Findow.tar, which has tougt we to do with aboos half or one-third the rindowi thougbt pecenary to the same latituder elverbere. Nom the removal of this tax, and of
the reatrictions on the manofactare of brick, heavee oo prevest for any one of the pecoluarises that have arade our fenearstion to anique in gliness; vis. fermen of openiage, excemive widi, irregelar poniwow mof over coch ofict. extreme mallowmesh, and the siaking or cracking apmare top. Eree suppoeing mbit to hat oar deellinga agtina more iste. or more quaclity of miadow arm, it ougbt to of divided amoag twice mempapertares. O conrse, uoder a tas rapeleod by their sumber, sot
 tivily abound) to make the (fon onde: bou othruies, overy ebject, whothre the quable differequires the jot onermer an mor row. H ace ore the tamphe miademe of all rul architecture ( 1 hich, Like anerthing eboat a treple wore ropely moned hated the man hatory in

Thin applice to all old rindow, Greek. Romens, By rasume, or Gocthic, sot indead equally, bat in crensingly, an ert improved.
The increased namber of riadown and their more gracefol proportion moold improve the exterior, be contionee, -
' But this is not all; the peeber of openiage being no longer revericted, there in no remoon for getting the atmoat light from each, and therefore so remon for a rquart up fiting the ceiling: 一all batation
 after the invention of the arch, fry pre, ) being barbarous and upint. The forme primer for win dow-arches are the memicircalap, the mpreatal (ol not lew thas quadrant), the pointed in any proportion lcieer than equiloural, the mepental pointed (or castle areh), the three-centred and fouroentred poisted (eacb in any proportion lower than equilateril), and the roand or pointed trefoil arct; equ except ibe tro iast being prodacible with one. or at mont two. wedge-shaped brick, Fithoat entting, eseep to ercommodate their tope to the conmed of the will. Thas we hare pianty of acope for amore variety than those aparoing atilitarian lecters meeme ever to bave developed.

His asection that the use of girder to oupport a crosa partition, orer an undirided room belaw is " wholly indefensible and inex. cusible under ang circumatances whaterer, or in any materials," seeme to us natemable. The writer says, 一

Iodeed, the mbjecting lengthy bars or beams, or any maencs longer than twice or thrice their depih, to merom-btrain or an force teading to bend them, in (escept in the aonpodable cases of foor-ing-bourds and their immedinte bearen) as once to0 unnataral to ocear to berbaroan builders. and two inartificisl to be palmed of on any civitiond com. munity not bluodod by excomive soptimetacion: and we owe the appearance of soct things (anerec till the last fer yeari) solely wa acbroil of mell. tyled "engineers." that werw to expect the morid to beliere rade and artices thift become produges of acience by a mere change of their materna; that AH:l is abown in getting mede in irou, thinge too rude end skillews to stadi in weaker, or be toleraled amore facoiliar materinas; and thas becouse ite strength and stifnens enabie it to rectio almont any lorm, the produce of Culebrook Dele furnaces is not ooly a subatitate for brains, and to do their work, bot they do get the credit of ita"
What should we say, be writes, of a beam of sfome, in any rade antignity, ten or twenty times its depth. surported only at the ends, and loaded somewhere between them with a wall or columo: and yes engineers would permade as that in iroo such an arrangement is alloweble. Aod why not? We cas be quite certaio that the iron will perform it duty efficiently. just an efieiently as the "tied arch," which the suthor proposes to subaitute : and why should we not arail ourselren of the conrenience it offers? It is oo argument aguias the employment of girdere, to asy that sthe rendeocy of the material in that position is to brenk. The tendeney of joists is to break; the tendency of the brick walls which carry them; is to crush; but we know they will not, because we shall not put sufficient weight apon them to bring this about.

The wbole "copyism queation" be finds resolved by the one fermala of Mr. Rackin,-
"That all oraatieat is base which takes for lite subject hama work, sast it is atterly bese, -pinful to every rigbuy-toned mind, vithont pertape immediste nease of the reason: bat for a rumo palpable enougt wheo ve do think of it. For to carve our own work, and eet it up for adeirstion, is a miserable self.complenemy, a contentmand is oar own metuthed doiag.
He think: it makes elear,-

- Hoer a form that is beeutifel io as old boild-
 $\rightarrow$ bom what ia bovedy oo Wontminger Abbey might be growed relyat on Wienteimater Polace. or what
 he mave fors which oe the old work oviemed men'o miad, oo the pew rimold a molloy's,

